Attorney's Docket No.:06975-029001
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FACSIMILE

FOR THE PERSONAL ATTENTION OF:

EXAMINER LY

FAX NO: 703-746-8306

Number of pages including this page   2

Applicant : William KENNEY   Art Unit : 2664
Serial No. : 09/582,261   Examiner : LY
Filed   : October 10, 2000
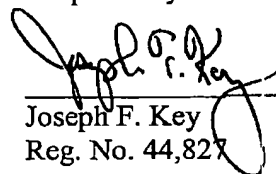   FACSIMILE COMMUNICATION
Title   : Localization of Clients and Servers

Examiner Ly:

As mentioned in my voice mail, it appears that when substitute page 5 was filed, the last
paragraph on substitute page 5 lines 31-33 included the first three lines (lines 1-3) on page 6. So,
lines 31-33 on substitute page 5 were added in error. Also, there is a typographical error on
substitute page 5 line 30. Please see the attached sheet. Please call me if you have any further
questions.

Respectfully submitted,

Date:October 29, 2003

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SUBSTITUTE
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software, scientific software, internet access software, word processing software, and many other types of software. User applications may access computer system peripherals 112-114, 121, and 124 through an application programming interface provided by the operating system and/or may directly interact with underlying computer system 100 hardware.

5   A collection of computers 100 can serve as components of a computer network. As shown in Fig. 2, a computer network 200 can include a host computer system 210 and client computers 231-236. The client computers 231-236 can communicate with the host 210 to obtain data stored at the host 210 in databases 214-215. The client computer 231-236 may interact with the host computer 210 as if the host was a single entity in the network 200.

10   However, the host 210 may include multiple processing and database sub-systems that can be geographically dispersed throughout the network 200. For example, a host 210 may include a tightly coupled cluster 211-213 of computers 100 (Fig. 1) at a first location that access database systems 214-215 at remote locations. Each database system 214-215 may include additional processing components.

15   Client computers 231-236 can communicate with the host system 210 over, for example, a combination of public switched telephone network dial-up connections and packet network interconnections. For example, client computers 231-233 may each include a modem coupled to voiceband telephone line 241-243. To communicate with the host 210, the client computers 231-233 establish a data connection with a local terminal server 225 by dialing a

20   telephone number assigned to the local terminal server 225. A local terminal server 225 may have both dial-up and packet network interfaces allowing the server 225 to receive data from client computers 231-233, segment the received data into data packet payload segments, add overhead information to the payload segments, and send the resultant data packets over a link 221 to a packet data network 220 for delivery to the host system 210. Terminal servers 225

25   and 226 may also be referred to as a network service provider's point-of-presence (POP).

The overhead information added to the payload segments includes a packet header. A packet header includes a destination address assigned to the host system 210 and a source address assigned to the local terminal server 225. Other overhead information may include information associating the data packet with a specific client 231-233. Similarly, the host

30   system 210 may send data to a client 231-233 by segmenting the data into packet ~~payload segments, and adding overhead information to send the data packet to a client 231-234 at the terminal server 225. Client computers 234-236 may similarly exchange data with the host 210 over communications links 244-246 to the terminal server 226.~~

These 3 lines are the first three lines on page 6.